

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("3332981").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:41
L2	1	("5665675").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:46
L3	1	("5710094").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:48
L4	1	("5811369").PN.	USPAT; USOCR	OR	OFF	2008/01/22 08:50
L5	1	("5811368").PN.	USPAT; USOCR	OR	OFF	2008/01/22 09:12
L6	14893	ureido	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L7	9	ureido and 564/32.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L8	1	ureido and 564/32.ccls. and 564/47.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L9	0	ureido and 514/646.ccls. and 564/47.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12
L10	9	ureido and 514/646.ccls.	US-PGPUB; USPAT	OR	OFF	2008/01/22 09:12

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/CAPLUS enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	CAPLUS coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEMLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAPLUS enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	29	JAN 02	STN pricing information for 2008 now available
NEWS	30	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS EXPRESS	19	SEPTEMBER 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:08:24 ON 22 JAN 2008

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 08:08:31 ON 22 JAN 2008

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

DICTIONARY FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

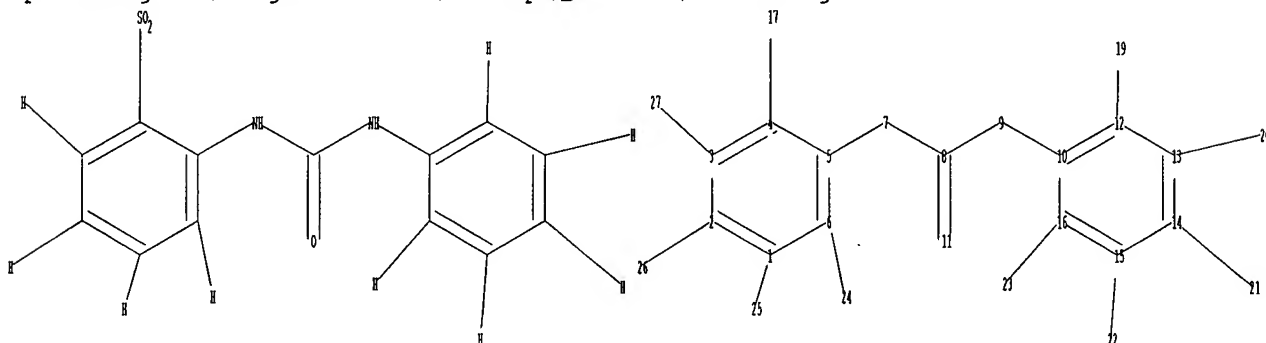
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10535683g.str



chain nodes :

7 8 9 11 17 19 20 21 22 23 24 25 26 27

ring nodes :

1 2 3 4 5 6 10 12 13 14 15 16

chain bonds :  
 1-25 2-26 3-27 4-17 5-7 6-24 7-8 8-9 8-11 9-10 12-19 13-20 14-21 15-22  
 16-23  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 10-12 10-16 12-13 13-14 14-15 15-16  
 exact/norm bonds :  
 5-7 7-8 8-9 8-11 9-10  
 exact bonds :  
 1-25 2-26 3-27 4-17 6-24 12-19 13-20 14-21 15-22 16-23  
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G1:OH,NH2

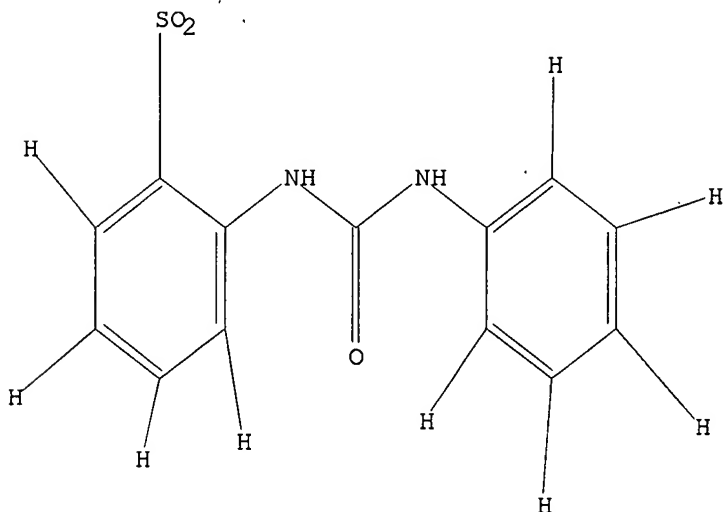
Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom  
 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 19:CLASS 20:CLASS  
 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 08:08:49 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 76 TO ITERATE

100.0% PROCESSED 76 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 997 TO 2043

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 08:08:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1403 TO ITERATE

100.0% PROCESSED 1403 ITERATIONS

14 ANSWERS

SEARCH TIME: 00.00.01

L3 14 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

178.57

FILE 'CAPLUS' ENTERED AT 08:08:54 ON 22 JAN 2008

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FILE COVERS 1907 - 22 Jan 2008 VOL 148 ISS 4

FILE LAST UPDATED: 21 Jan 2008 (20080121/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.

They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l3

L4 22 L3

=> d ibib abs hitstr tot

THE ESTIMATED COST FOR THIS REQUEST IS 119.90 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

## L4 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:97991 CAPLUS  
 DOCUMENT NUMBER: 145:366486  
 TITLE: Positive photosensitive composition and image recording material using the same  
 INVENTOR(S): Watanabe, Kotaro  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: U.S. Pat. Appl. Publ., 40pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006210921	A1	20060921	US 2006-375254	20060315
JP 2006258980	A	20060928	JP 2005-73819	20050315
			JP 2005-73819	A 20050315

## PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 145:366486

AB The invention discloses a pos. photosensitive composition comprising (A) a photo acid generator having bivalent functional group selected from NHC(O), NHC(S), NHC(NMe), and NHC(NMe), (B) a polymer having a phenolic hydroxyl group, and (C) an IR-light absorber. The invention also provides a pos. planog. printing plate precursor using this photosensitive composition for the recording layer.

IT 910312-72-0

RL: MOA (Modifier or additive use); USES (Uses)  
 (pos. photosensitive composition for planog. printing plate precursor)

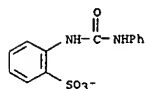
RN 910312-72-0 CAPLUS

CN Sulfonium, tris(4-chlorophenyl)-, salt with 2-[[phenylamino]carbonyl]amino]benzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 910312-71-9

CMF C13 H11 N2 O4 S



CM 2

CRN 125853-07-8

CMF C18 H12 C13 S

## L4 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

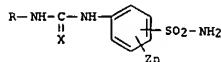
ACCESSION NUMBER: 2000:866394 CAPLUS  
 DOCUMENT NUMBER: 134:35079  
 TITLE: Thermal printing material using support containing used paper pulps  
 INVENTOR(S): Midorikawa, Yoshiharu; Tsuguzuki, Yuji; Hamada, Kaoru; Kimura, Yoshihide  
 PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000343833	A	20001212	JP 1999-156406	19990603
			JP 1999-156406	19990603

## PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 134:35079

GI



AB The material possesses a heat-sensitive layer based on a colorless or pale colored basic dye precursor and I [X = O or S; R = Ph, naphthyl, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl (these groups may be substituted); 2 = C1-6 alkyl or electron-attracting group; n = 0-4] as an organic color developer on a used paper pulp-containing support. The material shows good coloring properties and improved thermal resistance enough to be thermally laminated.

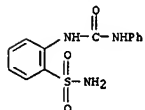
IT 175014-56-9

RL: DEV (Device component use); USES (Uses)

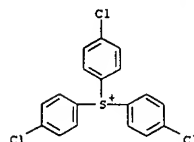
(thermal printing material using support containing used paper pulp and urea derivative color developer)

RN 175014-56-9 CAPLUS

CN Benzenesulfonamide, 2-[[phenylamino]carbonyl]amino]- (CA INDEX NAME)



## L4 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



## L4 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:830070 CAPLUS  
 DOCUMENT NUMBER: 134:23529  
 TITLE: Thermal recording sheet having compound containing diphenyl sulfonic repeating unit  
 INVENTOR(S): Fukuiji, Tadakazu; Oyawa, Hidenori; Sumikawa, Naomi; Imai, Daisuke; Hamada, Kaoru; Kimura, Yoshihide  
 PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000326638	A	20001128	JP 2000-5019	20000104
			JP 1999-71216	A 19990317

## PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 134:23529

AB The title recording sheet has a heat-sensitive layer containing a compound containing di-Ph sulfonic repeating unit and 0.01-0.9 part aminobenzene sulfonamide compound based on one part of a color developer. The recording sheet shows the improved stability towards a plasticizer and the improved sensitivity.

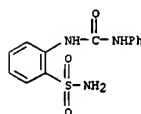
IT 175014-56-9

RL: TEM (Technical or engineered material use); USES (Uses)

(supplemental agent for color developer in thermal recording sheet)

RN 175014-56-9 CAPLUS

CN Benzenesulfonamide, 2-[[phenylamino]carbonyl]amino]- (CA INDEX NAME)

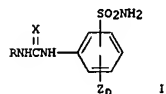


L4 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:678947 CAPLUS  
DOCUMENT NUMBER: 131:315857  
TITLE: Thermal printing material with excellent heat-resistance and plasticizer-resistance  
INVENTOR(S): Wakita, Yutaka; Nagai, Tomoaki; Hamada, Kaoru; Sumikawa, Naomi  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.  
CODEN: JXXXXF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11291636	A	19991026	JP 1998-102746	19980414

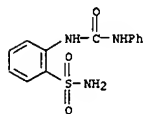
PRIORITY APPLN. INFO.: MARPAT 131:315857  
OTHER SOURCE(S):  
GI



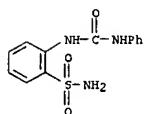
AB The thermal printing material contains a leuco dye, a developer represented by a general formula I (X = O, S; R = Ph, naphthyl, aralkyl, C1-6-lower alkyl, C3-6-cycloalkyl, C2-6-lower alkenyl; Z = C1-6-lower alkyl, electron-withdrawing group; n = 0-4; p = 1-5; n + p ≤ 5), and glyoxal.

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses) (color developer in thermal printing material with excellent heat-resistance and plasticizer-resistance)

RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

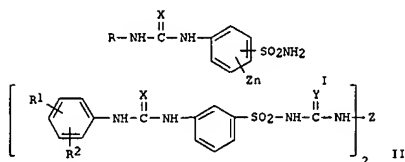


L4 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:648642 CAPLUS  
DOCUMENT NUMBER: 131:264840  
TITLE: Thermosensitive recording material  
INVENTOR(S): Sumikawa, Naomi; Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
CODEN: JXXXXF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11277910	A	19991012	JP 1998-80954	19980327
JP 3336610	B2	20021021		

PRIORITY APPLN. INFO.: MARPAT 131:264840  
OTHER SOURCE(S):  
GI



AB In the title recording material having a heat-sensitive recording layer containing a leuco dye precursor and a developer, the developer containing ≥1 compound I (X = O, S; R = (substituted)phenyl, naphthyl, aralkyl, C1-6 alkyl, cycloalkyl, C2-6 alkenyl; Z = C alkyl or electron attractive group; n = 0-4) and a stabilizer II (X, Y = O, S; R1,2 = H, C1-4 alkyl, halo; R1 with R2 may joint to form an aromatic ring; Z = O, S). The invention recording material show superior resistance to moisture and plasticizer and has certain heat resistance good for possible heat-laminating.

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses) (developer; thermosensitive recording material containing specified developer and stabilizer)

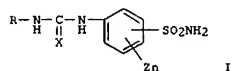
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

L4 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:648641 CAPLUS  
DOCUMENT NUMBER: 131:279340  
TITLE: Thermosensitive recording material  
INVENTOR(S): Sumikawa, Naomi; Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
CODEN: JXXXXF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11277909	A	19991012	JP 1998-80953	19980327
JP 3336609	B2	20021021		

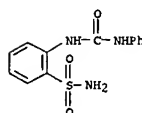
PRIORITY APPLN. INFO.: MARPAT 131:279340  
OTHER SOURCE(S):  
GI



AB In the title recording material having a heat-sensitive recording layer containing a leuco dye precursor and a developer, the developer containing ≥1 compound I (X = O, S; R = (substituted)Ph, naphthyl, aralkyl, C1-6 alkyl, cycloalkyl, C2-6 alkenyl; Z = C1-6 alkyl or electron attractive group; n = 0-4) and a stabilizer II (X, Y = O, S; R1-4 = H, C1-4 alkyl, halo; R1 with R2, and R3 with R4 may joint to form an aromatic ring). The invention recording material shows superior resistance to moisture and plasticizer.

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses) (developer; thermosensitive recording material containing specified developer and stabilizer)

RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

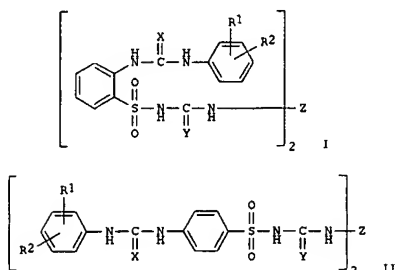


L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:618717 CAPLUS  
DOCUMENT NUMBER: 131:264792  
TITLE: Thermal printing material containing (thio)urea compound as color developer  
INVENTOR(S): Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru; Sumikawa, Naomi; Kinishi, Yoshikazu; Suga, Mamoru  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan; Yoshitomi Fine Chemical K. K.  
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11263071	A	19990928	JP 1998-65863	19980316
JP 3334126	B2	20021015		

PRIORITY APPLN. INFO.: MARPAT 131:264792  
OTHER SOURCE(S):  
GI



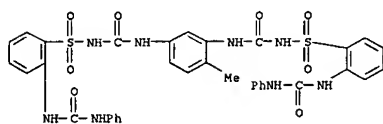
AB The material comprises a support coated with a heat-sensitive layer containing a colorless or pale colored basic dye, an organic color developer, and  $\geq 1$  compound I or II (R1, R2 = H, Cl-4 alkyl, halo, R1 and R2 may link each other to form an aromatic ring; X, Y = O, S; Z = divalent organic group).

IT The material provides a high d. image and low d. background and shows high plasticizer and moisture resistance.

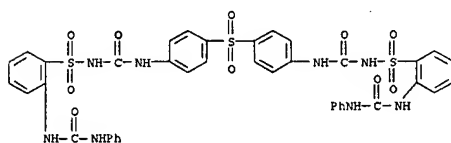
IT 244306-20-5 244306-22-7 244306-27-2  
244306-30-7 244306-31-8  
RL: TEM (Technical or engineered material use); USES (Uses)  
(thermal printing material containing (thio)urea compound as color developer)

RN 244306-20-5 CAPLUS

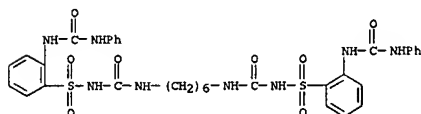
L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



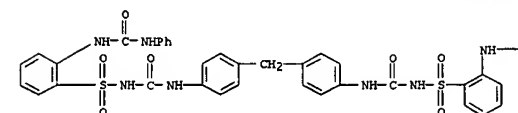
RN 244306-30-7 CAPLUS  
CN Benzenesulfonamide, N,N'-[sulfonylbis(4,1-phenyleneiminocarbonyl)]bis[2-[[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)



RN 244306-31-8 CAPLUS  
CN Benzenesulfonamide, N,N'-[1,6-hexanediylbis(iminocarbonyl)]bis[2-[[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
CN Benzenesulfonamide, N,N'-[methylenebis(4,1-phenyleneiminocarbonyl)]bis[2-[[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)

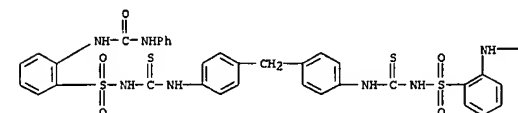


PAGE 1-A



PAGE 1-B

RN 244306-22-7 CAPLUS  
CN Benzenesulfonamide, N,N'-[methylenebis(4,1-phenyleneiminocarbonyl)]bis[2-[[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)



PAGE 1-A



PAGE 1-B

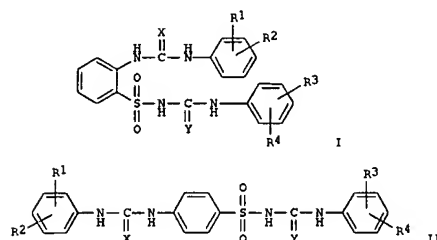
RN 244306-27-2 CAPLUS  
CN Benzenesulfonamide, N,N'-[(4-methyl-1,3-phenylene)bis(iminocarbonyl)]bis[2-[[[(phenylamino)carbonyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:617911 CAPLUS  
DOCUMENT NUMBER: 131:264836  
TITLE: Heat-sensitive recording material with improved plasticizer and oil resistance, containing 2- or 4-(phenylcarbamoylsulfamoyl)carbanilide  
INVENTOR(S): Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru; Sumikawa, Naomi; Kinishi, Yoshikazu; Suga, Mamoru  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan; Yoshitomi Fine Chemical K. K.  
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11263067	A	19990928	JP 1998-65862	19980316
JP 3334125	B2	20021015		

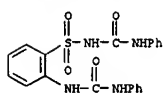
PRIORITY APPLN. INFO.: MARPAT 131:264836  
OTHER SOURCE(S):  
GI



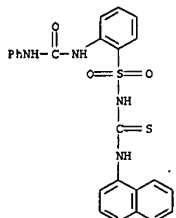
AB The material comprises a support having thereon a heat-sensitive color forming layer mainly containing a colorless or light-colored basic dye precursor, an organic color developer, and  $\geq 1$  2- or 4-(phenylcarbamoylsulfamoyl)carbanilide I or II (R1-4 = H, Cl-4 alkyl, halo; R1 and R2 or R3 and R4 may form an aromatic ring; X, Y = O, S) as an organic developer or stabilizer. It shows improved resistance to plasticizers, oils, humid, and heat.

IT 244613-89-6 244614-01-5  
RL: TEM (Technical or engineered material use); USES (Uses)  
(developer or stabilizer; heat-sensitive recording material with improved plasticizer and oil resistance)

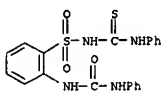
RN 244613-89-6 CAPLUS  
CN Benzenesulfonamide, N-[(phenylamino)carbonyl]-2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



RN 244614-01-5 CAPLUS  
CN Benzenesulfonamide, N-[(1-naphthalenylamino)thiomethyl]-2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



IT 244613-91-0 244613-93-2  
RL: TEM (Technical or engineered material use); USES (Uses)  
(heat-sensitive recording material with improved plasticizer and oil resistance)  
RN 244613-91-0 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]-N-[(phenylamino)thiomethyl]- (CA INDEX NAME)

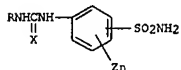


RN 244613-93-2 CAPLUS  
CN Benzenesulfonamide, N-[[[(4-methylphenyl)amino]carbonyl]-2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

ACCESSION NUMBER: 1999:406901 CAPLUS  
DOCUMENT NUMBER: 131:80808  
TITLE: Thermal printing material with good heat and light resistance  
INVENTOR(S): Sumikawa, Naomi; Nagai, Tomoaki; Hamada, Kaoru; Wakita, Yutaka  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

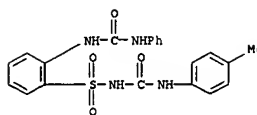
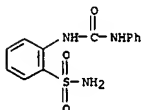
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11170706	A	19990629	JP 1997-341064	19971211

PRIORITY APPLN. INFO.:  
OTHER SOURCE(S): MARPAT 131:80808  
GI



AB In the material comprising a support having an undercoat layer, a heat-sensitive layer containing a dye precursor and a color developer, and a protective layer, the color developer contains 21 of I [X = O, S; R = (substituted) Ph, naphthyl, aralkyl, C1-6 alkyl, cycloalkyl, C2-6 alkenyl; Z = C1-6 alkyl, electron withdrawing group; n = 0-4], the undercoat layer and/or the heat-sensitive layer contain a UV absorbent, the heat-sensitive layer and/or the protective layer contain a UV shut-off agent, and the protective layer contains a fluorescent dye. The material shows good heat and light resistance.  
IT 175014-56-9

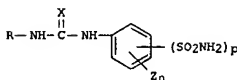
RL: TEM (Technical or engineered material use); USES (Uses)  
(thermal printing material containing aminobenzene sulfonamide color developer)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



ACCESSION NUMBER: 1998:779460 CAPLUS  
DOCUMENT NUMBER: 130:73875  
TITLE: Thermal printing sheet with excellent heat-resistance and antiplasticization  
INVENTOR(S): Nagai, Tomoaki; Wakita, Yutaka; Hamada, Kaoru; Sato, Ayako; Ohashi, Reiji; Nakano, Tomoyuki  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

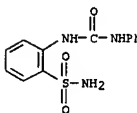
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10315633	A	19981202	JP 1998-61129	19980312

PRIORITY APPLN. INFO.:  
OTHER SOURCE(S): MARPAT 130:73875  
GI



AB The title sheet comprises a thermal printing layer comprised of a leuco dye, a color developer I [X = O, S; R = Ph, naphthyl, aralkyl, C1-6-lower-alkyl; C3-6-cycloalkyl, C2-6-lower-alkenyl; Z = C1-6-lower alkyl, electron withdrawing group; n = 0-4; p = 1-5; n + p ≤ 5], and a polyurea compound  
IT 175014-56-9

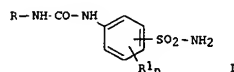
RL: TEM (Technical or engineered material use); USES (Uses)  
(color developer in thermal printing layer of thermal printing sheet)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2008 ACS ON STN

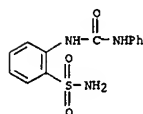
ACCESSION NUMBER: 1998:650823 CAPLUS  
DOCUMENT NUMBER: 129:323901  
TITLE: Thermal printing material containing sulfonamide urea compound as color developer  
INVENTOR(S): Nagai, Tomoaki; Hamada, Kaoru; Wakida, Yutaka; Sato, Reiko  
PATENT ASSIGNEE(S): Nihon Seishi K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.  
CODEN: JKGXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10264536	A	19981006	JP 1997-91331	19970327
JP 3306492	B2	20020724		
PRIORITY APPLN. INFO.:			JP 1997-91331	19970327
OTHER SOURCE(S):				
GI			MARPAT 129:323901	

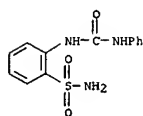


AB The material comprises a support with coatings of an intermediate layer containing hollow polymer particles having an opening obtained by cutting a part of the particle at a plane and a heat-sensitive layer containing a colorless or pale colored basic dye and, as a color developer,  $\Sigma$  compound 1 [X = O or S; R = (substituted) Ph, naphthyl, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl; R1 = C1-6 alkyl or electron-attracting group; n = 0-4; p = 1-5; n + p  $\leq$  5]. The material shows high thermal sensitivity, thermal resistance, antisticking properties prevents adhesion of stain to thermal head.

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses)  
(thermal printing material containing sulfonamide urea compound as color developer)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



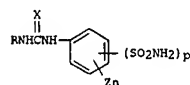
L4 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



L4 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 1997:476120 CAPLUS  
DOCUMENT NUMBER: 127:115323  
TITLE: Thermal recording medium  
INVENTOR(S): Fukuchi, Tadakazu; Hamada, Kaoru; Nagai, Tomoaki; Kudoh, Nobuhiko; Sekine, Akio  
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 29 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 778157	A2	19970611	EP 1996-308718	19961203
EP 778157	A3	19980225		
EP 778157	B1	20010404		
R: BE, DE, FR, GB, IT, SE				
JP 09216461	A	19970819	JP 1996-309825	19961121
JP 3063078	B2	20000712		
US 5811368	A	19980922	US 1996-759705	19961206
HK 1010356	A1	20010817	HK 1998-111281	19981016
PRIORITY APPLN. INFO.:			JP 1995-319922	A 19951208
OTHER SOURCE(S):				
GI			MARPAT 127:115323	



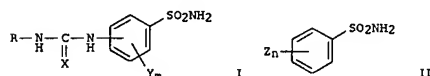
AB A thermal recording medium comprises, on a substrate, a thermally sensitive color developing layer which comprises a colorless or pale colored basic leuco dye and an organic color developer, wherein the thermal color developing layer includes (a) 0.01-0.9 parts by weight, based on 1 part by weight of the color developer, of one or more aminobenzenesulfonamide deriva. of the formula 1 wherein X is oxygen or sulfur, R is a group selected from Ph, naphthyl, aralkyl, C1-C6 alkyl, C3-C6 cycloalkyl, and C2-C6 alkenyl, which group is unsubstituted or substituted, Z is C1-C6 alkyl or an electron-attracting group, n is 0 or an integer from 1 to 4 and p is an integer from 1 to 5, providing n+p $\leq$ 5 and (b) 0.01-2 parts by weight, based on 1 part by weight of the color developer, of at least one methylolated fatty acid amide of the formula R1CONHCH2OH wherein R1 is C11-C21 alkyl.

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses)  
(thermal recording materials containing)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

L4 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2008 ACS ON STN

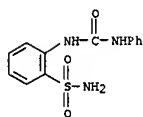
ACCESSION NUMBER: 1997:453717 CAPLUS  
DOCUMENT NUMBER: 127:88112  
TITLE: Thermal-sensitive recording sheet  
INVENTOR(S): Hamada, Kaoru; Hidrikawa, Yoshiaki; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Ueda, Hiroshi  
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan  
SOURCE: Can. Pat. Appl., 45 pp.  
CODEN: CPXXEB  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2185846	A1	19970320	CA 1996-2185846	19960918
JP 09142034	A	19970603	JP 1996-232827	19960903
JP 3029014	B2	20000404		
EP 769391	A1	19970423	EP 1996-306806	19960919
EP 769391	B1	19981125		
R: BE, DE, FR, GB, IT, SE				
US 5753586	A	19980519	US 1996-716547	19960919
PRIORITY APPLN. INFO.:			JP 1995-240157	A 19950919
OTHER SOURCE(S):				
GI			MARPAT 127:88112	



AB A thermal-sensitive recording sheet comprises a substrate having thereon a thermal-sensitive color-developing layer mainly composed of a leuco dye and an organic color developer, characterized in that the thermal-sensitive color-developing layer includes an aminobenzenesulfonamide derivative represented by the formula I, where X indicates an oxygen or sulfur atom, Y indicates a lower alkyl group of 1-4 carbon atoms or an electron-attracting group, m indicates an integer of 0-4, and R indicates a nonsubstituted or substituted Ph group, aralkyl group, lower alkyl group of 1-6 carbon atoms, cycloalkyl group of 3-6 carbon atoms, lower alkenyl group of 2-6 carbon atoms, or naphthyl group, as a color developer and a sulfonamide compound represented by the formula II, where Z indicates a lower alkyl group of 1-6 carbon atoms or an electron-attracting group and n indicates an integer of 0-2, as a sensitizer by the amount of 0.01-2 parts based on 1 part of the color developer.

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses)  
(color developer for thermal recording materials)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

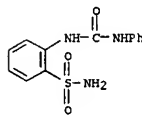


ACCESSION NUMBER: 1997:447284 CAPLUS  
 DOCUMENT NUMBER: 127:73053  
 TITLE: Thermal printing material for images with good solvent resistance  
 INVENTOR(S): Nagai, Tomoaki; Sekine, Akio; Hamada, Kaoru; Fukuchi, Chuichi  
 PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.  
 CODEN: JXXXXF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09142029	A	19970603	JF 1995-303053	19951121
JP 3063075	B2	20000712		
PRIORITY APPL. INFO.: JF 1995-303053 19951121				
OTHER SOURCE(S): MARPAT 127:73053				
GI				

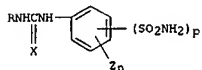
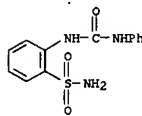
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The material comprises a support coated with a heat-sensitive layer containing  
 a colorless dye precursor,  $\geq 1$  aminobenzenesulfonamide derivative I (X = O, S; R = (substituted) Ph, naphthyl, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl; Z = C1-6 alkyl, electron withdrawing group; n = 0-4; p = 1-5; n + p  $\leq 5$ ),  $\geq 1$  polyhydroxy phenol II (R1 = C18-35 alkyl, C6H4R2, CH2C6H4R2, Q1-3; R2 = C18-35 alkyl; q = 2-3; G = CH2, CO2, CO, O, CONH, CONR3; R3 = C5-30 alkyl, SO2, SO3 SO2NH), and a higher fatty acid metal salt. The material gives high-d. images with good solvent resistance and storage stability.  
 IT 175014-56-9  
 RL: DEV (Device component use); USES (Uses)  
 (color-developer; thermal printing material for images with good solvent resistance)  
 RN 175014-56-9 CAPLUS  
 CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



ACCESSION NUMBER: 1997:435981 CAPLUS  
 DOCUMENT NUMBER: 127:58133  
 TITLE: Thermal recording medium containing fatty acid amide  
 INVENTOR(S): Nagai, Tomoaki; Hamada, Kaoru; Sekine, Akio  
 PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 24 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 776769	A2	19970604	EP 1996-308592	19961128
EP 776769	A3	19980128		
EP 776769	B1	20000202		
R: BE, DE, FR, GB, IT, SE				
JP 09207456	A	19970812	JP 1996-308559	19961120
JP 3063077	B2	20000712		
US 5811369	A	19980922	US 1996-757766	19961127
HK 1000907	A1	20000728	HK 1997-102477	19971217
PRIORITY APPL. INFO.: JP 1995-313910 A 19951201				
OTHER SOURCE(S): MARPAT 127:58133				
GI				

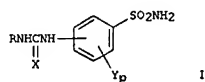


AB A thermally sensitive recording medium comprises on substrate, a recording layer comprising (a) a colorless or pale colored dye precursor, (b) a color developer which can react with the dye precursor to develop a color and which includes at least one compound of formula I wherein X is oxygen or sulfur and R is a group selected from Ph naphthyl, aralkyl, C1-C6 alkyl, C3-C6 cycloalkyl and C2-C6 alkenyl, which group is unsubstituted or substituted, Z is C1-C6 alkyl or an electron-attracting group, n is 0 or an integer from 1 to 4, and p is an integer from 1 to 5 provided that n + p  $\leq 5$ , and (c) at least one methylated fatty acid amide of formula R1CONHCH2OH wherein R1 is C11-C21 alkyl.  
 IT 175014-56-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (thermal recording medium containing fatty acid amide and)  
 RN 175014-56-9 CAPLUS  
 CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

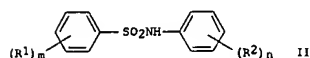
L4 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1997:396584 CAPLUS  
 DOCUMENT NUMBER: 127:26207  
 TITLE: Thermal recording media containing aminobenzenesulfonamide and aromatic sulfonyl compound  
 INVENTOR(S): Hamada, Kaoru; Midorikawa, Yoshimi; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Kaneko, Toshio  
 PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09099645	A	19970415	JP 1995-261388	19951009
JP 2910031	B2	19990623		

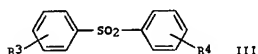
PRIORITY APPLN. INFO.: JP 1995-261388 19951009  
 OTHER SOURCE(S): MARPAT 127:26207  
 GI



I



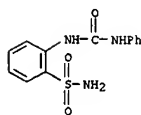
II



III

AB The media have a thermal coloring layer containing a colorless or pale-colored dye, an organic color developer containing an aminobenzenesulfonamide derivative I (X = O, S; Y = Cl-6 alkyl, electron-accepting group; p = 0-4; R = Ph, aralkyl, Cl-6 alkyl; C3-6 cycloalkyl; C2-6 alkenyl, naphthyl) and 0.01-2 parts (to the developer) an aromatic sulfonyl compound sensitizer II (R1, R2 = halo, Cl-6 alkyl; m, n = 0-2) or III (R3, R4 = H, Cl-6 alkoxy, aryloxy) on a support. The media give good images with sensitivity.  
 IT 175014-56-9  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

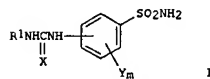
L4 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 (thermal recording media contg. aminobenzenesulfonamide color developer and arom. sulfonyl compd. sensitizer)  
 RN 175014-56-9 CAPLUS  
 CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



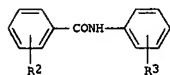
L4 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1997:383583 CAPLUS  
 DOCUMENT NUMBER: 127:26194  
 TITLE: Thermal recording material with improved thermal sensitivity  
 INVENTOR(S): Hamada, Kaoru; Midorikawa, Yoshimi; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Ueda, Hiroshi  
 PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09099646	A	19970415	JP 1995-261389	19951009
JP 2967712	B2	19991025		

PRIORITY APPLN. INFO.: JP 1995-261389 19951009  
 OTHER SOURCE(S): MARPAT 127:26194  
 GI



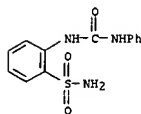
I



II

AB The title recording material comprises a support coated with a heat-sensitive layer containing a basic colorless dye, an aminobenzenesulfonamide derivative I (X = O, S; Y = Cl-6 alkyl, electron-attracting group; m = 0-4; R1 = (substituted) Ph, aralkyl, Cl-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl, naphthyl) as a color developer, and an aromatic amide compound II (R2 = H, Me; R3 = H, electron-attracting group) as a sensitizer at 0.01-2 parts per 1 part the color developer.  
 IT 175014-56-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (color developer; thermal recording material containing aminobenzenesulfonamide color developer and aromatic amide sensitizer)  
 RN 175014-56-9 CAPLUS  
 CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

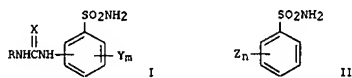
L4 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:342243 CAPLUS  
DOCUMENT NUMBER: 127:26150  
TITLE: Thermal printing material containing benzenesulfonamide derivative as stabilizer  
INVENTOR(S): Hamada, Kaoru; Fukuchi, Chuichi; Midorikawa, Yoshimi; Takebayashi, Kuniaki; Wakita, Yutaka; Nagai, Tomoaki; Sekine, Akio; Kudo, Nobuhiro  
PATENT ASSIGNEE(S): Jujo Paper Mfg. Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09076633	A	19970325	JP 1995-240158	19950919
JP 2967706	B2	19991025		
PRIORITY APPLN. INFO.:			JP 1995-240158	19950919
OTHER SOURCE(S):		MARPAT 127:26150		
GI				



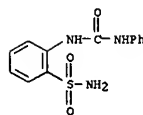
AB In the material comprising a support coated with a heat-sensitive layer containing a basic dye and an organic color-developer, the layer contains,

as stabilizers, 0.01-0.9 parts (based on 1 part color-developer) aminobenzenesulfonamide derivative I [X = O, S; Y = C1-6 alkyl, electron-withdrawing group; m = 0-4; R = (substituted) Ph, aralkyl, C1-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl, naphthyl] and 0.01-2 parts (based on 1 part color-developer) sulfonamide compound II (Z = C1-6 alkyl, electron-withdrawing group; n = 0-2). The material gives images with good storage stability.

IT 175014-56-9  
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)  
(thermal printing material containing (amino)benzenesulfonamide derivs.

as storage stabilizers)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:428399 CAPLUS  
DOCUMENT NUMBER: 125:72005  
TITLE: Reversible multi-color thermal recording medium  
INVENTOR(S): Minami, Toshiaki; Nagai, Tomoaki; Hamada, Kaoru; Sekine, Akio  
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 64 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

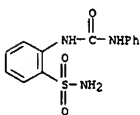
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 709225	A1	19960501	EP 1995-307663	19951027
EP 709225	B1	19980805		
R: BE, DE, FR, GB, IT, SE				
JP 08118806	A	19960514	JP 1994-262998	19941027
JP 2910027	B2	19990623	JP 1994-294142	19941129
JP 08156407	A	19960618		
JP 2910028	B2	19990623		
CA 2161376	A1	19960428	CA 1995-2161376	19951025
CA 2161376	C	20050111		
US 5710094	A	19980120	US 1995-549240	19951027
PRIORITY APPLN. INFO.:			JP 1994-262998	A 19941027
			JP 1994-294142	A 19941129

OTHER SOURCE(S): MARPAT 125:72005  
AB A reversible multi-color thermal recording medium comprises, laminated on a substrate: (i) an irreversible thermal composition comprising a colorless or pale basic achromatic dye and an organic irreversible heat-resistant color developer; and (ii) a reversible multi-color thermal composition comprising

a colorless or pale basic achromatic dye and an organic reversible heat-resistant color developer.

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses)  
(irreversible heat-resistant color developer for reversible multi-color thermal recording medium)

RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)

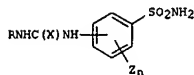


L4 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:205047 CAPLUS  
DOCUMENT NUMBER: 124:246515  
TITLE: Aminobenzenesulfonamide derivative as color developer for thermosensitive recording material  
INVENTOR(S): Nagai, Tomoaki; Hamada, Kaoru; Sekine, Akio; Minami, Toshiaki  
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 31 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 693386	A1	19960124	EP 1995-305078	19950720
EP 693386	B1	19970205		
R: BE, DE, FR, GB, IT, SE				
JP 08025810	A	19960130	JP 1994-168516	19940721
JP 2819542	B2	19981030	JP 1994-187649	19940816
JP 08053407	A	19960227	JP 1994-187649	19940816
JP 08059603	A	19960305	JP 1994-195568	19940819
JP 08132739	A	19960528	JP 1994-270959	19941104
JP 2819544	B2	19981030		
JP 08290671	A	19961105	JP 1995-97021	19950421
JP 3063069	B2	20000712	JP 1995-122393	19950522
JP 08310134	A	19961126		
JP 3063071	B2	20000712	CA 1995-2154323	19950720
CA 2154323	A1	19960122		
CA 2154323	C	20010327		
US 5665675	A	19970909	US 1995-504784	19950720
PRIORITY APPLN. INFO.:			JP 1994-168516	A 19940721
			JP 1994-187649	A 19940816
			JP 1994-195568	A 19940819
			JP 1994-270959	A 19941104
			JP 1995-97021	A 19950421
			JP 1995-122393	A 19950522

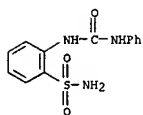
OTHER SOURCE(S): MARPAT 124:246515  
GI



AB A thermosensitive recording material comprises a substrate having thereon a recording layer comprising, as main ingredients, a colorless or pale colored dye precursor and a color developer with which the dye precursor reacts to develop a color, wherein the color developer comprises at least one compound of the formula I [X is an O or sulfur atom, R is a (un)substituted Ph group, naphthyl group, aralkyl group, C1-C6 alkyl group, cycloalkyl group of C2-C6 alkenyl group, Z is a C1-C6 alkyl group or an electron-attracting group, and n is 0 or an integer of 1-4].

IT 175014-56-9  
RL: TEM (Technical or engineered material use); USES (Uses)

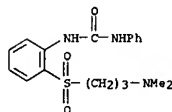
L4 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
(color developer for thermosensitive materials)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1972:448065 CAPLUS  
DOCUMENT NUMBER: 77:48065  
ORIGINAL REFERENCE NO.: 77:7859a,7962a  
TITLE: Substituted ureas and their derivatives  
INVENTOR(S): Krapcho, John  
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc.  
SOURCE: S. African, 32 pp.  
CODEN: SFXKAB  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 5  
PATENT INFORMATION:

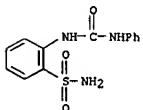
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 7101379	A	19711229	ZA 1971-1379	19710303
GB 1358584	A	19740703	GB 1971-19513	19710608
BE 768555	A1	19711215	BE 1971-104654	19710615
CH 546231	A	19740228	CH 1971-8744	19710615
CH 555323	A	19741031	CH 1971-8743	19710615
PRIORITY APPLN. INFO.:		US 1970-46520	A	19700615

GI For diagram(s), see printed CA issue.  
AB About 10 phenylureas (I, X = O, S; R = H; R1 = H, alkyl, cyclohexyl, phenyl) were prepared by reacting the corresponding o-substituted anilines Me2N(CH2)3XC6H4NH2 (II) with the isocyanates OCNR1 in C6H6, AcOH, or MeCN at room temperature or at reflux. Two I [X = S; R = R1 = Me; (NR1) = 1-pyrrolidinyl] were prepared by reacting II (X = S) with COCl2 in CHCl3-PhMe at room temperature and treating the product with either Me2NH or with pyrrolidine. I (X = O; R = R1 = Me) was prepared by refluxing II (X = O) in PhMe with Me2NCOC1. I (X = S; R = H; R1 = Ph) was oxidized with m-chloroperoxybenzoic acid to give I (X = SO, SO2; R = H; R1 = Ph).  
IT 36587-75-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
RN 36587-75-4 CAPLUS  
CN Urea, N-[2-[[[(3-(dimethylamino)propyl)sulfonyl]phenyl]-N'-phenyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCl

L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1951:6245 CAPLUS  
DOCUMENT NUMBER: 45:6245  
ORIGINAL REFERENCE NO.: 45:1144b-f  
TITLE: Derivatives of benz-1,2,4-thiadiazine 1,1-dioxide  
AUTHOR(S): Parke, D. V.; Williams, R. T.  
CORPORATE SOURCE: St. Mary's Hosp. Med. School, London  
SOURCE: Journal of the Chemical Society (1950) 1760-3  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
OTHER SOURCE(S): CASREACT 45:6245  
GI For diagram(s), see printed CA issue.  
AB o-12NC6H4SO2NH2 (I) (10 g.) and 7 g. CO(NH2)2, heated 30 min. at 180°, give 94% C6H4.5O2.NH.CO.NH (II), m. 305° (Schrader, C.A. 12, 1772, gave 287.8°), has a very sweet saccharinlike taste; Me2SO4 and alkali give the 2-Me derivative, m. 238-40°. II (10 g.) in 10 cc. concentrated H2SO4, treated at 0-5° with 3.5 cc. concentrated HNO3 and 4 cc. concentrated H2SO4, gives 9 g. of the 7-NO2 derivative, pale buff, m. 283°, intensely bitter; Na salt, deep orange. 2,4-H2N(O2N)C6H3SO2NH2 (III) (0.8 g.) and 0.7 g. CO(NH2)2 at 200° give the 6-NO2 derivative of II, yellow, m. 270°, slightly bitter, forms an orange Na salt. 5,2-Br(NH2)C6H3SO2NH2 (0.5 g.) gives 0.45 g. of the 7-Br derivative of II, m. 335°, almost tasteless. 3,2-HO(H2N)C6H3SO2Na (229 mg.) and 150 mg. CO(NH2)2, heated 1 hr. at 180°, give 61% of the 5-HO derivative of II, m. 275°, deep blue FeCl3 reaction (acetate, m. 262°). I (2 g.) and 2 g. PhNCO, heated 1 hr. at 100°, give 2 g. 1-phenyl-3-(o-sulfamylphenyl)urea (IV), m. 180°; heated 1 hr. at 220°, IV gives PhNH2 and II. This indicates that H2CNO [formed by the decomposition of CO(NH2)2] combines with the I to give a substituted urea which then cyclizes with loss of NH3 to form the II. III (0.12 g.) and 0.2 cc. HCO2H, heated 1 hr. on the water bath, give a quant. yield of 6-nitro-1,4,2,2H-benzothiadiazine 1,1-dioxide, yellow, m. 358° (decomposition); 7-Br analog, m. 285°; 5-HO analog, light brown, m. 263°, blue color with FeCl3. I (5 g.), 10 cc. Ac2O, and 5 cc. C5H5N, kept overnight, give 4.8 g. of the o-diacylamino compound, m. 190°; heated 2 hrs. at 200°, it gives the 3-Me homolog of II, m. 269°. I with equal vols. of AcOH and Ac2O gives a mixture of Ac derivs.; the mono-Ac derivative is cyclized on crystallization from hot H2O. The absorption spectra of these compds. are discussed.  
IT 175014-56-9P, Carbanilide, 2-sulfamoyl-  
RL: PREP (Preparation)  
(preparation of)  
RN 175014-56-9 CAPLUS  
CN Benzenesulfonamide, 2-[[[(phenylamino)carbonyl]amino]- (CA INDEX NAME)



L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

120.38

298.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-17.60

-17.60

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/CAPLUS enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	CAPLUS coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	INPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEALINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAPLUS enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	29	JAN 02	STN pricing information for 2008 now available
NEWS	30	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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DICTIONARY FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

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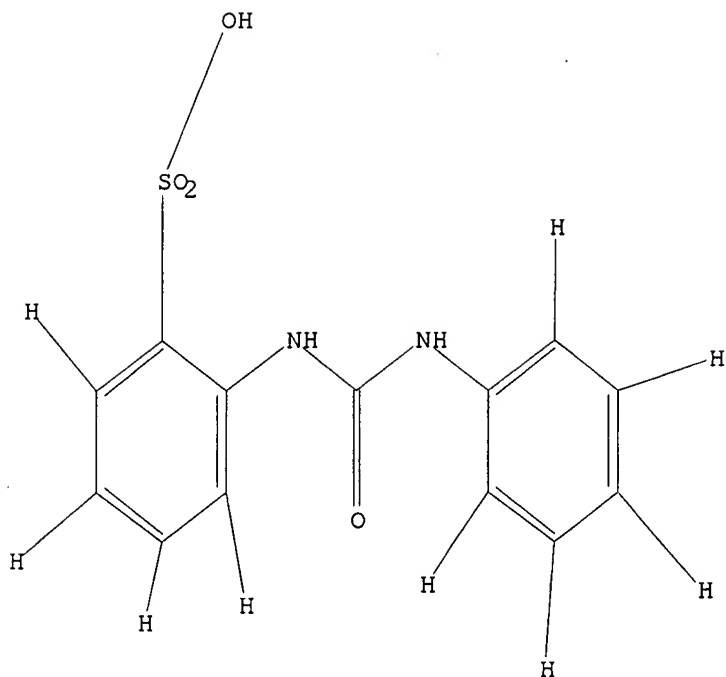
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L1        STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1        STR



G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 08:20:31 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 215 TO 825  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 08:20:33 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 449 TO ITERATE

100.0% PROCESSED 449 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.36	178.57

FILE 'CAPLUS' ENTERED AT 08:20:36 ON 22 JAN 2008  
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FILE LAST UPDATED: 21 Jan 2008 (20080121/ED)

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=> s l3

L4 1 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2006:979991 CAPLUS  
DOCUMENT NUMBER: 145:366486  
TITLE: Positive photosensitive composition and image recording material using the same  
INVENTOR(S): Watanabe, Kotaro  
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
SOURCE: U.S. Pat. Appl. Publ., 40pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
US 2006210921	A1	20060921	US 2006-375254	20060315
JP 2006258980	A	20060928	JP 2005-73819	20050315
PRIORITY APPLN. INFO.:			JP 2005-73819	A 20050315

OTHER SOURCE(S): MARPAT 145:366486

AB The invention discloses a pos. photosensitive composition comprising (A) a photo acid generator having bivalent functional group selected from NHC(O), NHS(O)2, NHC(S), and NHC:N(Me), (B) a polymer having a phenolic hydroxyl group, and (C) an IR-light absorber. The invention also provides a pos. planog. printing plate precursor using this photosensitive composition for the recording layer.

IT 910312-72-0

RL: MOA (Modifier or additive use); USES (Uses)  
(pos. photosensitive composition for planog. printing plate precursor)

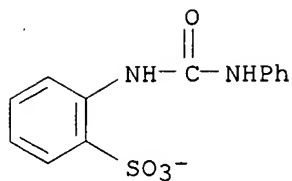
RN 910312-72-0 CAPLUS

CN Sulfonium, tris(4-chlorophenyl)-, salt with 2-  
[[ (phenylamino) carbonyl] amino] benzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 910312-71-9

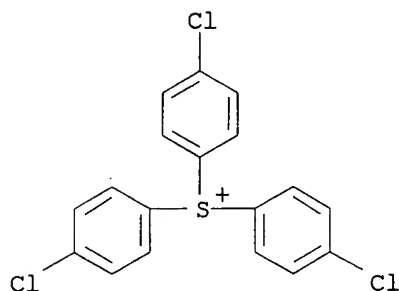
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CM 2

CRN 125853-07-8

CMF C18 H12 Cl3 S



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

6.41

184.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.80

-0.80

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DICTIONARY FILE UPDATES: 21 JAN 2008 HIGHEST RN 1000370-19-3

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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<http://www.cas.org/support/stngen/stndoc/properties.html>

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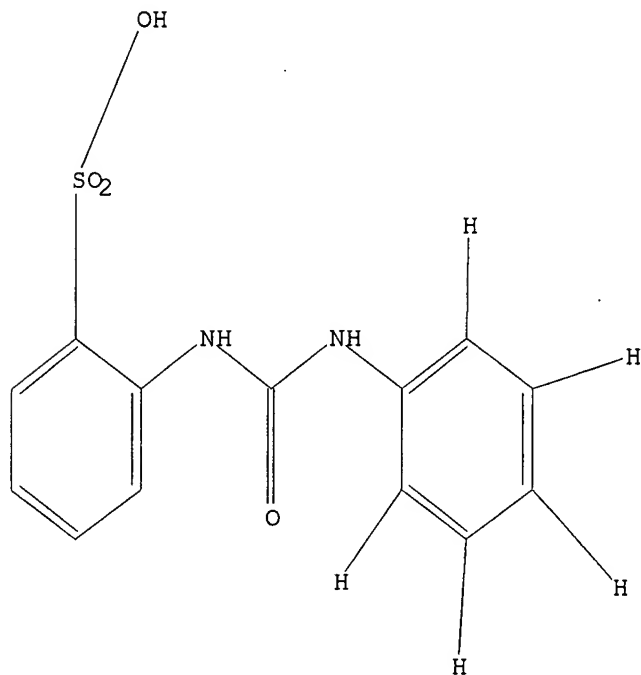
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L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS

L5 STR



G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 08:21:55 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 215 TO 825

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 08:21:58 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 449 TO ITERATE

100.0% PROCESSED 449 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

L7 6 SEA SSS FUL L5

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

363.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:979991 CAPLUS

DOCUMENT NUMBER: 145:366486

TITLE: Positive photosensitive composition and image recording material using the same

INVENTOR(S): Watanabe, Kotaro

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 40pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006210921	A1	20060921	US 2006-375254	20060315
JP 2006258980	A	20060928	JP 2005-73819	20050315
PRIORITY APPLN. INFO.:			JP 2005-73819	A 20050315

OTHER SOURCE(S): MARPAT 145:366486

AB The invention discloses a pos. photosensitive composition comprising (A) a photo acid generator having bivalent functional group selected from NHC(O), NHS(O)2, NHC(S), and NHC:N(Me), (B) a polymer having a phenolic

hydroxyl group, and (C) an IR-light absorber. The invention also provides a pos. planog. printing plate precursor using this photosensitive composition for the recording layer.

IT 910312-72-0

RL: MOA (Modifier or additive use); USES (Uses)

(pos. photosensitive composition for planog. printing plate precursor)

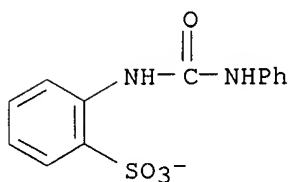
RN 910312-72-0 CAPLUS

CN Sulfonium, tris(4-chlorophenyl)-, salt with 2-  
[[ (phenylamino)carbonyl]amino]benzenesulfonic acid (1:1) (9CI) (CA INDEX  
NAME)

CM 1

CRN 910312-71-9

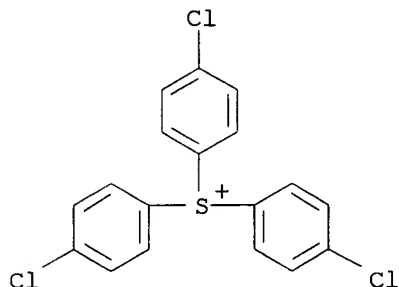
CMF C13 H11 N2 O4 S



CM 2

CRN 125853-07-8

CMF C18 H12 Cl3 S



L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1992:526051 CAPLUS

DOCUMENT NUMBER: 117:126051

TITLE: Combined action of a fluorescent brightening agent and  
polyoxyethylene alkylalcohol ether on yeast

AUTHOR(S): Sugihara, Toshiharu

CORPORATE SOURCE: Fac. Educ., Gifu Univ., Gifu, 501-11, Japan

SOURCE: Nippon Kasei Gakkaishi (1992), 43(3), 207-14

CODEN: NKGAE; ISSN: 0913-5227

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The influence of the fluorescent brightener, di-Na 4,4'-  
bisphenylureidostilbene-2,2'-disulfonate (I), on *Saccharomyces cerevisiae*  
yeast was investigated in the presence of a series of polyoxyethylene  
alkyl ethers (POEs). The nonionic surfactants changed the action of I on  
the yeast depending on their nature. Hydrophobic surfactants with I  
decreased more the growth of the yeast and the rate of surviving cells  
after incubation than with I alone, which was accompanied by stronger

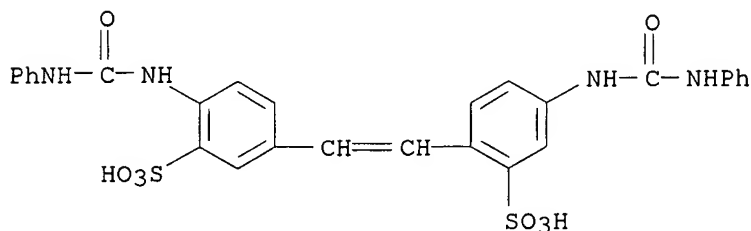
inhibition of sterol biosynthesis and of enzymes related to the electron-transport process. Extracellular enzymes were greatly enhanced in the presence of hydrophobic surfactants and I. On the other hand, the surfactants with low hydrophobicity exhibited the opposite action in reducing the influence of I on the biol. processes in yeast. POEs had little effect on yeast. The effects of POE and I on the biochem. processes of yeast correlated well with the hydrophilic-lipophilic balance (HLB) of the surfactants. This phenomenon is interpreted in terms of the change in interaction of I in POE micelles with yeast, and is supported by data on adsorption isotherms of FBA to yeast in the presence of POE.

IT 124412-61-9

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (toxicity of, to yeast, polyoxyethylene surfactants effect on, sterol formation and enzymes in relation to)

RN 124412-61-9 CAPLUS

CN Benzenesulfonic acid, 2-[[[(phenylamino)carbonyl]amino]-5-[2-[4-[[[(phenylamino)carbonyl]amino]-2-sulfophenyl]ethenyl]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:18775 CAPLUS

DOCUMENT NUMBER: 112:18775

TITLE: Influence of fluorescence brightening agents on yeast *Saccharomyces cerevisiae*

AUTHOR(S): Sugihara, Toshiharu

CORPORATE SOURCE: Fac. Educ., Gifu Univ., Gifu, 501-11, Japan

SOURCE: Nippon Kasei Gakkaishi (1989), 40(8), 691-6

CODEN: NKGAEB; ISSN: 0913-5227

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The effects of 4 types of fluorescence brightening agents (FBAs) on *S. cerevisiae* were investigated. Derivs. of stilbene disulfonic acid disodium salt (FBA-1) strongly inhibited yeast growth, while derivs. of coumarin (FBA-2), pyrazoline (FBA-3), and naphthylimide (FBA-4) slightly affected the yeast. Inhibition by each FBA was correlated with the inhibition of sterol biosynthesis and with the enzymes related to the electron transport system in yeast. FBA-1 changed the sterol composition by strongly accumulating the sterols found in the early stages of biosynthesis and by strongly inhibiting the enzymes of electron-transport system. FBA-2, -3, and -4 did not have significant effects on either sterol biosynthesis or enzyme activity.

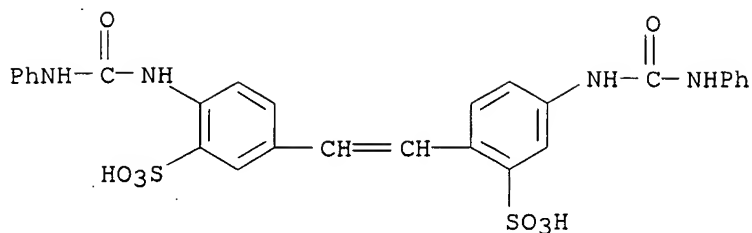
IT 124412-61-9

RL: BIOL (Biological study) (*Saccharomyces cerevisiae* inhibition by, mechanism of)

RN 124412-61-9 CAPLUS

CN Benzenesulfonic acid, 2-[[[(phenylamino)carbonyl]amino]-5-[2-[4-[[[(phenylamino)carbonyl]amino]-2-sulfophenyl]ethenyl]-, disodium salt

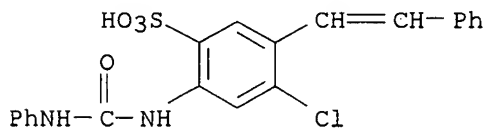
(9CI) (CA INDEX NAME)



●2 Na

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1967:482960 CAPLUS  
DOCUMENT NUMBER: 67:82960  
ORIGINAL REFERENCE NO.: 67:15675a,15678a  
TITLE: Urea stilbene brighteners  
INVENTOR(S): Shultis, Webster A., Jr.; Shanholtzer, Orville G.  
PATENT ASSIGNEE(S): General Aniline and Film Corp.  
SOURCE: U.S., 2 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	US 3332981		19640725	US 1964-396390	19640914
GI	For diagram(s), see printed CA Issue.				
AB	The title compds. the general formula I, useful as fluorescent brightening agents for nylon, were prepared by condensing aminostilbenes with a phenyl isocyanate. Thus, a solution of 22.95 g. 4-H <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> CH:C <sub>6</sub> H <sub>4</sub> Cl-2 in 200 cc. acetone was treated with 13.1 g. PhNCO. After 1 hr. at room temperature the mixture was filtered, washed, and dried to give 86% tannish I (R <sub>1</sub> = Cl, R = R <sub>2</sub> = R <sub>3</sub> = R <sub>4</sub> = H). Similarly, other I were prepared (R-R <sub>4</sub> given): Cl, H, Cl, H, H, H; H, H, Cl, H, SO <sub>3</sub> H; H, H, H, H, H; Cl, H, H, Cl, H; H, H, CN, H, H.				
IT	17347-44-3P RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)				
RN	17347-44-3 CAPLUS				
CN	3-Stilbenesulfonic acid, 6-chloro-4-(3-phenylureido)- (8CI) (CA INDEX NAME)				



L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1959:14091 CAPLUS  
DOCUMENT NUMBER: 53:14091  
ORIGINAL REFERENCE NO.: 53:2629i,2630a-c

TITLE: Adsorption of water-soluble organic compounds on cotton. II

AUTHOR(S): Lamparsky, D.; Rack, E.

CORPORATE SOURCE: Battelle Mem. Inst., Frankfurt, Germany

SOURCE: Seifen, Oele, Fette, Wachse (1958), 84, 640-4  
CODEN: SOFWAF; ISSN: 0173-5500

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C.A. 53, 1704g. The adsorption of Congo red (I), an optical brightener [PhNHCONH(SO<sub>3</sub>Na)C<sub>6</sub>H<sub>3</sub>CH:]<sub>2</sub> (II), 4,4'-diaminodiphenylmethane (III), 2-hydroxybiphenyl (IV), and 2,2'-dihydroxybiphenyl (V) on cotton from aqueous solution was studied, and the influence of Na<sub>2</sub>SO<sub>4</sub> (VI), Na<sub>5</sub>P<sub>3</sub>O<sub>10</sub> (VII), and surface-active agents on the adsorption was investigated. The exptl. procedures were given in the previous article. At pH 5.5, I is adsorbed more strongly than at pH 9.5. In the presence of VI, the adsorption of I is greatly increased at both pH values. VII and surface-active agents decrease the adsorption of I. The adsorption of II is the same at pH 5.5 and 9.5. Presence of VI again increases the adsorption; VII has no influence. III is adsorbed at pH 5.5 to an equal degree with or without addition of VI. At pH 9.5, there is only little adsorption which is markedly increased by VI. In the presence of surface-active agents, there is no adsorption. The adsorption of IV on cotton is independent of time, and follows Henry's distribution law. Formation of a solid solution of IV on cotton is postulated. Addition of VI or VII has no influence. Addition of surface-active agents results in a time-dependent equilibrium and a greatly increased adsorption. Na dodecylbenzenesulfonate is approx. 4 times as effective as Na dodecyl sulfate. V behaves similarly to IV, but the over-all adsorption is lower, and there is no adsorption in the presence of VII and at pH 9.5.

IT 116028-99-0, 3,3'-Stilbenedisulfonic acid, 4,4'-bis(3-phenylureido)-  
(adsorption on cotton and effect of Na<sub>2</sub>SO<sub>4</sub>, Na<sub>5</sub>P<sub>3</sub>O<sub>10</sub> and surfactants thereon)

RN 116028-99-0 CAPLUS

CN 3,3'-Stilbenedisulfonic acid, 4,4'-bis(3-phenylureido)- (6CI) (CA INDEX NAME)

